U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

						FOR INSURANCE COMPANY USE	
A1. Building Owner's Name							ber:
	Marty and Becky Kanipe						
 A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 649 McAlister Landing 						Company N	NAIC Number:
City State					ZIP Code		
Richmond Hill		Georgia			31324		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot MC-7,Ford Plantation, Parcel #0548 007							
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) New Residential Main House							
A5. Latitude/Longitude: Lat. N 31.9201 Long. W -81.2699 Horizontal Datum: NAD 1927 NAD 1983							
A6. Attach at least	2 photograph	ns of the building if the	Certific	cate is being used to	o obtain flood insur	ance.	
A7. Building Diagra	am Number	7					
A8. For a building v	- with a crawlsp	pace or enclosure(s):					
	•	space or enclosure(s)		1510 sq ft			
b) Number of p	permanent flo	od openings in the cra			vithin 1.0 foot above	adjacent gr	ade 10
100 000000 NO 10000 NO 10000		enings in A8.b 200		sq in		35000	
		***		4. • Source			
	d) Engineered flood openings? Yes No No A9. For a building with an attached garage:						
		ed garage N/A	8	en ft			
					at above adjacent		21/2
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent gradeN/A							
c) Total net area of flood openings in A9.bN/A sq in							
d) Engineered flood openings?							
	SEC	CTION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi	ty Name & Co	ommunity Number		B2. County Name	B3. \$		B3. State
City Of Richmond H	till	130018		Bryan			Georgia
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)	
13029C092	С	05/05/2014		/2009	AE	13	и Бериі)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: ☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source:							
	[2] 1 11 1111 [illed L			MATRICE STATE OF THE STATE OF T	
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:							
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes X No							
Designation Date: CBRS OPA							
CODICO CODICO							

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IMPORTANT: In these spaces, copy the corresponding information from	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O.	Policy Number:					
649 McAllister Landing						
City State Richmond Hill Georgia	ZIP Code 31324	Company NAIC Number				
SECTION C - BUILDING ELEVATION INFOR	SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)					
C1. Building elevations are based on: Construction Drawings*	Building Under Constru	uction* X Finished Construction				
*A new Elevation Certificate will be required when construction of the b	uilding is complete.					
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.						
Benchmark Utilized: BM El. 5.96 Site Plan by R.L.S. Vertical Dat						
Indicate elevation datum used for the elevations in items a) through h) I ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source:	pelow.					
Datum used for building elevations must be the same as that used for t	ne BFE.					
		Check the measurement used.				
a) Top of bottom floor (including basement, crawlspace, or enclosure f						
b) Top of the next higher floor	17. 6					
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	Innered Innered				
d) Attached garage (top of slab)	N/A.					
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	13. 1	X feet meters				
f) Lowest adjacent (finished) grade next to building (LAG)	<u> 6. 3 </u>	X feet meters				
g) Highest adjacent (finished) grade next to building (HAG)	<u>7</u> . 2	X feet meters				
 h) Lowest adjacent grade at lowest elevation of deck or stairs, includin structural support 	g <u>N/A</u>	feet meters				
SECTION D - SURVEYOR, ENGINEER, OR	ARCHITECT CERTIF	ICATION				
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.						
Were latitude and longitude in Section A provided by a licensed land survey		○ Check here if attachments.				
Certifier's Name License Number						
William C. Griffin 8713 GA						
Title P.E.						
Company Name	//Place / / //					
Skidaway Island Engineering, Inc.	Place Speat C. Aiffini B/28/17					
Address P.O. Box 15195	8/28/17					
City State Savannah Georgia	ZIP Code					
Signature Date 08/28/2017	Telephone 912-507-2787					
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.						
Comments (including type of equipment and location, per C2(e), if applicable)						
C2(e). Elevator equipment inside enclosure.						
The 1510 sf enclosure includes a 653 sf garage and 857 sf for entry and storage.						

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

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Building Street Address (including Apt., U	Policy Number:		
649 McAllister Landing			
City	State	ZIP Code	Company NAIC Number
Richmond Hill	Georgia	31324	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.





BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Ap	Policy Number:		
649 McAllister Landin			
City	State	ZIP Code	Company NAIC Number
Richmond Hill	Georgia	31324	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



FLOOD VENT

Photo Two

Photo Two

Photo Two Caption



ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent[®] units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent[®] FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing the door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with \$^1_{4}\$-inch-by-\$^1_{4}\$-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.

